

Work Order ID 87206

87206

Page 1

July 11-12 10:10:54 AM

Item ID: D350-604-041

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Rear Locker Extender

Start Date: 7/16/12 Start Qty: 1.00

1

Cust Item ID:

Required Date: 8/24/12 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start *NR1*

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2273	F								
D350-604-041	B								
100	DOCUMENT CONTROL	0.00							
100									
DC	Memo	0.00							
Document Control	Photocopy bluefile and create labels per PPP D350-604-041								
	CHG003 for D2273 rev.E (new gelcoat)								
	CHG004 for D2273 rev.F (new primer)								
110	PURCHASING	0.00							
110									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: 17548								
	Description: D350-604-041 Rear locker extender.								
	Supplier: Delastek.								
	Certification of Conformity and process sheet from Delastek is required.								
	4 x 2600-6 Camlock stud - Ship to Delastek B 122441								
	4 x 2600-LW Retaining washers - Ship to Delastek B 122452								

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 2

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Required Date: 8/24/12 Req'd Qty: 1.00

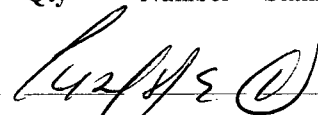
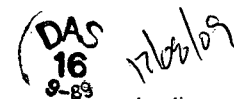
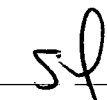
1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*
Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* Packaging Packaging	Receive & Inspect for Damage & Mat'l Certs Packaging Memo Ensure a copy of Certification of Conformity and process sheet from Delastek is attached.	0.00 0.00							
130 *130* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo Check hole locations to template. DT 8824 Check process sheet and audit.	0.00 0.00							
140 *140* Small Fab Small Fab	 Memo INSTALL DECALS AS PER DWG	0.00 0.00							

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 3

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Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Rear Locker Extender

Start Date: 7/16/12 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 8/24/12 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150 *150* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.00							
160 *160* Packaging Packaging	Packaging Memo Identify and pack for shipping as per PPP D350-604-041 Location: _____ PPP Rev: _____	0.00 0.00							
170 *170* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00							

DAS
16
12/08/09

12/8/09

MLJ 12/08/09

MP
12-08-09

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

July-11-12 10:10:54 AM

Page 1

Work Order ID: 87206

Parent Item: D350-604-041

Start Date: 7/16/12

Required Date: 8/24/12

Parent Item Name: Rear Locker Extender

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:Q03.12.01ReformatKJ/RF IPP REV:R 12.02.07 AS PER ECN12-
521 DD verf:JLM IPP REV:S 12.04.04 AS PER DWG REV.B DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
2600-6 Camlock Stud		Purchased	No			110	Each	199.0000	4	4		122441	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST380		199							
				120077		8							
				121556		4							
				122317		42							
				122335		145							
2600-LW Camloc Retaining Washer		Purchased	No			110	Each	319.0000	4	4		122482	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST380		316							
				121524		116							
				122317		200							
				ST381		1							
				121287		1							
				ST398		2							
				120648		2							
D2268 Decal		Manufactured	No			140	Each	31.0000	1	1		121819	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST007		20							
				80010		20							
				ST009		11							
				69592		2							
				78908		9							

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

July-11-12 10:10:54 AM

Page 2

Work Order ID: 87206

Parent Item: D350-604-041

Parent Item Name: Rear Locker Extender

Start Date: 7/16/12

Required Date: 8/24/12

Start Qty: 1.00

Required Qty: 1.00

D2269

Manufactured No

Each 25.0000

1

Decal

Location

Loc Qty

Loc Code

ST007

20

80011

20

ST009

5

78920

5

D350-604-041P

Purchased

No

110

Each

0.0000

1

1

Rear Locker Extender

Handwritten signature and date 8/24/12
87206

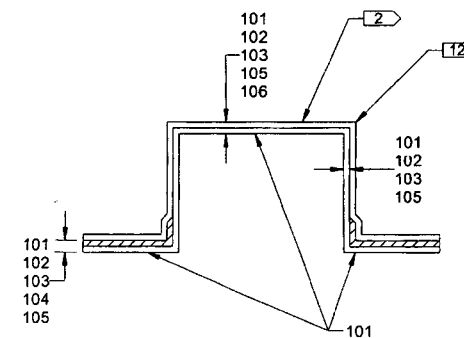
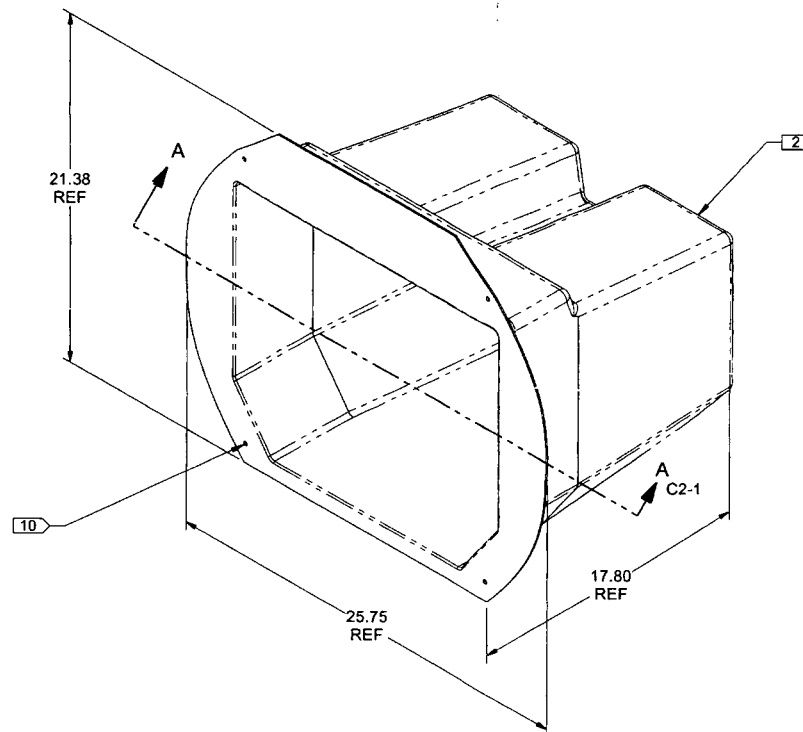
W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries



SECTION A-A
C4-1

RELEASED
2012-03-29

NOTES:

1) MATERIALS:

RESIN: DERA KANE 470-36/411/510A40
FIBRE: 9 oz = 9.7 oz 7781 WEAVE "S" GLASS
18 oz = 18.0 oz ROVING "E" GLASS

2) FINISH: FINISH THIS SURFACE WITH DUPONT GREY PRIMER LE 3404-S/LE 1175-S Δ

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1

7) WEIGHT: 7.75 lbs

8) LAMINATE PER DART QSI 006. LAMINATION SCHEDULE PER THIS DRAWING.

9) LAYUP USING DT8010 MOLD. WET LAYUP NO BAG/VACUUM

10) TRIM & DRILL PER DT8020. OPEN HOLES TO \varnothing 0.257 (4 PLACES)

11) CONSTRUCTION:

101-WHITE GLOSS GELCOAT # GEL 2330PAWK745 TO MIN THICKNESS OF 0.020

102-9 oz ALL OVER

103-18 oz ALL OVER

104-18 oz REINFORCE FRONT FLANGE EXTENDING 2" ON SIDES

105-9 oz ALL OVER

106-PEEL PLY

12) MATTE TO HOLD DOWN CORNERS AS REQUIRED

D2273 REAR LOCKER EXTENDER

W/O 8A206

F	PRIMER LE 3404-S/LE 1175-S WAS 1144-S, ZN A6-1	DC	12.02.27
E	CHANGED SURFACE FINISH FROM 944W005 GELCOAT TO 2330PAWK745 GELCOAT, ZN A7-1. UPDATED DWG TO CURRENT STANDARDS.	DC	12.02.02
D	REMOVE EPOCAST. ADD SURFACE FINISH	CP	02.04.01
C	CLARIFY MATERIAL, LAYUP, AND TOOLING	RF	02.01.30
B	RE-DRAWN	MM	96.05.27
REV.	DESCRIPTION	BY	DATE
DESIGN	JB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	BC		
CHECKED	BC	DRAWING NO.	REV. F
MFG. APPR.	BC	D2273	SHEET 1 OF 1
APPROVED	BC	TITLE	SCALE
DE APPR.	BC	350 REAR LOCKER EXTENDER NTS	
DATE	12.02.27	<small>COPYRIGHT © 1996 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

Solve Composites

Packing List

Bill Dart Aerospace

To: 1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Ship Dart Aerospace

To: 1270 Aderdeen Street
Hawkesbury, ON K6A 1K7
Canada

Shipment No: 13412

Shipment Date: 08/07/12

Ship Via: Fedex Freight

Order Number: 11936

Order Date: 07/26/12

Customer Code: DART

Phone: (613) 632-9577

PO Number: 17548

Terms: Net 30 Days

<u>Item</u>	<u>Open</u>	<u>Shipped</u>	<u>Back Ord</u>	<u>Canceled</u>	<u>Unit</u>	<u>Description</u>	<u>Revision</u>	<u>Job Number</u>
1	1	1	0		EA	D350-604-041P D350-604-041P Rear Locker Extender	F	11936-01

Packing Clerk's Initials
Solve Composites

Received In Good Order By
Dart Aerospace



Certificate of Conformance

Solve Composites

29 Distribution Way

Plattsburgh, New York, 12901

USA

Dart Aerospace Order Number: 17548

Part Number: D2273

Quantity: 1

Drawing Number: D2273, DT8020

Serial Number (s): 0005

Date: August 7, 2012

Sitology

Non-Conformances: None

This is to certify that the parts identified above conform to all applicable drawings and/or specifications as evidenced by reports on file, and that all other purchase order and quality requirements have been met.

mm

<i>Solve Composites</i>		29 Distribution Way, Suite 101 Plattsburgh, NY 12901 (518) 324-3838 (518) 324-5530		Tel: Fax:	Isometric View
Date	8-7-2012	Project	NovaBus		
Resin Batch #		Job	DART		
Gel-Coat Batch #					
NOVA Drg No.	D2273 Rev. F	Serial #	0005		
Panel Ref.	350 REAR LOCKER EXTENDER				